

CLAIMS

What is claimed is:

- 1 1. A fastener for attaching a circuit board to a
2 chassis comprising:
3 a head section for engaging the circuit board;
4 a tail section for engaging the chassis; and
5 a spring section to urge the head into engagement
6 with the circuit board.
- 1 2. The fastener of claim 1, wherein the head section
2 the tail section and the spring section are included in one
3 piece.
- 1 3. The fastener of claim 1, wherein the tail section
2 includes a fulcrum in pivotal engagement with the chassis.
- 1 4. The fastener of claim 1, further comprising a
2 grounding arm.
- 1 5. The fastener of claim 4, wherein the grounding
2 arm further comprises a foot that electrically contacts the
3 chassis.
- 1 6. The fastener of claim 1, further comprising a
2 fastener stop to hold the fastener generally upright when
3 the fastener is disengaged from the circuit board.

1 7. The fastener of claim 1, wherein the fastener
2 comprises die-stamped steel.

1 8. The fastener of claim 1, wherein the fastener
2 comprises plastic.

1 9. The fastener of claim 1, wherein the fastener
2 electrically connects the circuit board to the chassis.

1 10. A method for attaching a circuit board to a
2 chassis comprising the steps of:

3 positioning one or more pivoting fasteners within
4 the chassis, the one or more pivoting fasteners having
5 a head section, a tail section, and a spring section;

6 connecting the tail section of the one or more
7 pivoting fasteners to the chassis;

8 engaging one or more circuit board mounting holes
9 with the head section of the one or more pivoting
10 fasteners; and

11 locking releasably the circuit board to the
12 chassis.

1 11. The method of claim 10, wherein the step of
2 releasably locking the circuit board to the chassis is
3 accomplished using a retainer.

1 12. The method of claim 10, further comprising the
2 step of electrically connecting the circuit board to the
3 chassis.

1 13. The method of claim 10, wherein the pivoting
2 fastener electrically connects the circuit board to the
3 chassis.

1 14. The method of claim 10, wherein the head section
2 the tail section and the spring section of the one or more
3 pivoting fastener are included in one piece.

1 15. A system for attaching a circuit board to a
2 chassis comprising:
3 one or more pivoting fasteners connected to the
4 chassis; and
5 a retainer to engage the circuit board.

1 16. The system of claim 15, wherein the one or more
2 pivoting fasteners are aligned to mounting holes in the
3 circuit board.

1 17. The system of claim 15, wherein the one or more
2 pivoting fasteners are die-stamped steel.

1 18. The system of claim 15, wherein the one or more
2 pivoting fasteners are formed of substantially different
3 materials.

1 19. The system of claim 15, wherein the retainer is
2 configured to work in combination with the one or more
3 pivoting fasteners to releasably hold the circuit board.

1 20. The system of claim 15, wherein the one or more
2 pivoting fasteners electrically connect the chassis to the
3 circuit board.